

U.S. Patent Application Serial No. 09/960,401  
Amendment filed August 18, 2004  
Reply to OA dated May 18, 2004

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1                   Claim 1 (currently amended):     A method of producing a color filter, ~~which~~  
2     ~~comprises~~ comprising: forming pixels on a transparent substrate using a colored composition  
3     containing (a) an amino resin having a carboxyl group and/or a phenolic hydroxyl group, ~~[[and]]~~ (b)  
4     ~~a coloring material pigment, and (c) an organic solvent~~ by an ink-jet printing method; and ~~followed~~  
5     ~~by~~ curing the pixels.

1                   Claim 2 (original): The method of producing a color filter according to claim 1, wherein the  
2     amino resin (a) having a carboxyl group and/or a phenolic hydroxyl group is an amino resin obtained  
3     by condensing (a-1) (4,6-diamino-1,3,5-triazin-2-yl)benzoic acid with (a-2) at least one aldehyde  
4     compound selected from the group consisting of formaldehyde, glyoxylic acid, succinsemialdehyde,  
5     and hydroxybenzaldehyde.

1           Claim 3 (original): The method of producing a color filter according to claim 1, wherein the  
2           amino resin (a) having a carboxyl group and/or a phenolic hydroxyl group is an amino resin obtained  
3           by condensing (a-3) at least one triazine compound selected from the group consisting of melamine,  
4           benzoguanamine, and (4,6-diamino-1,3,5-triazin-2-yl)benzoic acid with (a-4) at least one aldehyde  
5           compound selected from the group consisting of glyoxylic acid, succinsemialdehyde, and  
6           hydroxybenzaldehyde.

1           Claim 4 (original): The method of producing a color filter according to claim 1, wherein the  
2           pixels are thermosetted.

1           Claim 5 (original): The method of producing a color filter according to claim 1, wherein the  
2           colored composition further contains (c) a compound having a photopolymerizable functional group.

1           Claim 6 (original): The method of producing a color filter according to claim 5, wherein the  
2           amino resin (a) having a carboxyl group and/or a phenolic hydroxyl group is an amino resin obtained  
3           by condensing (a-1) (4,6-diamino-1,3,5-triazin-2-yl)benzoic acid with (a-2) at least one aldehyde  
4           compound selected from the group consisting of formaldehyde, glyoxylic acid, succinsemialdehyde,  
5           and hydroxybenzaldehyde.

1           Claim 7 (original): The method of producing a color filter according to claim 5, wherein said  
2           amino resin (a) having a carboxyl group and/or a phenolic hydroxyl group is an amino resin obtained  
3           by condensing (a-3) at least one triazine compound selected from the group consisting of melamine,  
4           benzoguanamine, and (4,6-diamino-1,3,5-triazin-2-yl)benzoic acid with (a-4) at least one aldehyde  
5           compound selected from the group consisting of glyoxylic acid, succinsemialdehyde, and  
6           hydroxybenzaldehyde.

1           Claim 8 (original): The method of producing a color filter according to claim 5, wherein the  
2           pixels are thermosetted after photopolymerization.

1           Claim 9 (new):    The method of producing a color filter according to claim 1, wherein the  
2           amount of (b) the pigment in the colored composition is within a range of 10 to 70% by weight based  
3           on the non-volatile content in the colored composition.

1           Claim 10 (new):   The method of producing a color filter according to claim 1, wherein the  
2           average particle diameter of (b) the pigment is within a range of 0.005 to 3  $\mu\text{m}$ .

1           Claim 11 (new):   The method of producing a color filter according to claim 1, wherein the  
2           average particle diameter of (b) the pigment is within a range of 0.01 to 1  $\mu\text{m}$ .

1           Claim 12 (new): The method of producing a color filter according to claim 1, wherein the  
2           amount of (c) the solvent is within a range of 1 to 19 parts by weight based on 1 part by weight of  
3           the non-volatile content in the colored composition.

1           Claim 13 (new): The method of producing a color filter according to claim 1, wherein (c)  
2           the solvent has a boiling point of 80 to 200°C.

1           Claim 14 (new): The method of producing a color filter according to claim 1, wherein (c)  
2           the solvent is at least one selected from the group consisting of aromatic solvents including toluene,  
3           xylene, and methoxybenzene; acetic acid ester solvents including ethyl acetate, butyl acetate,  
4           propylene glycol monomethyl ether acetate, and propylene glycol monoethyl ether acetate;  
5           propionate solvents including ethoxyethyl propionate; alcohol solvents including methanol, ethanol,  
6           propanol, and ethyleneglycol; ether solvents including butylcellosolve, propylene glycol monomethyl  
7           ether, diethylene glycol diethyl ether, and diethylene glycol dimethyl ether; ketone solvents including  
8           methyl ethyl ketone, methyl isobutyl ketone, and cyclohexanone; aliphatic hydrocarbon solvents  
9           including hexane; nitrogen compound solvents including N,N-dimethylformamide,  $\gamma$ -butyrolactam,  
10          N-methyl-2-pyrrolidone, aniline, and pyridine; lactone solvents including  $\gamma$ -butyrolactone; and  
11          carbamic acid esters.

1           Claim 15 (new):     The method of producing a color filter according to claim 1, wherein  
2           (c) the solvent is at least one selected from the group consisting of acetic acid ester solvents which  
3           include ethyl acetate, butyl acetate, propylene glycol monomethyl ether acetate, and propylene glycol  
4           monoethyl ether acetate.

1           Claim 16 (new):   The method of producing a color filter according to claim 1, wherein the  
2           viscosity of the colored composition is not more than 50 mPa • s.

1           Claim 17 (new):   The method of producing a color filter according to claim 1, wherein the  
2           viscosity of the colored composition is not more than 10 mPa • s.

1           Claim 18 (new):   The method of producing a color filter according to claim 1, wherein the  
2           transparent substrate has an ink-jet ink receiving layer thereon.